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November 21, 2002

WRITER'S DIRECT NUMBER:
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Commissioner for Patents
 Washington, D.C. 20231

Art Unit 1645

Re: U.S. Utility Patent Application
 Appl. No. 10/050,902; Filed: January 18, 2002
 For: **Molecular Antigen Array**
 Inventors: Renner *et al.*
 Our Ref: 1700.0190004/JAG/BJD/SJE

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TECH CENTER 1600/2900

Sir:

Transmitted herewith for appropriate action are the following documents:

1. First Supplemental Information Disclosure Statement;
2. Form PTO-1449 listing the cited documents (seventy-eight (78) pages);
3. Copies of the cited documents; and
4. One (1) return postcard.

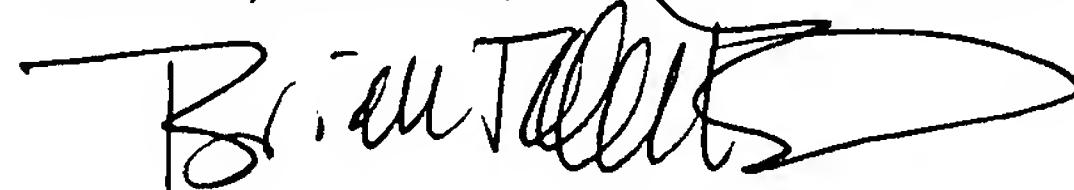
It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
November 21, 2002
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The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono
Attorney for Applicants
Registration No. 42,473

JAG/BJD/SJE:krh

Enclosures

SKGF_DCI:77506.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RENNER *et al.*

Appl. No. 10/050,902

Filed: January 18, 2002

For: **Molecular Antigen Array**

Confirmation No. 7792

Art Unit: 1645

Examiner: *To be assigned*

Atty. Docket: 1700.0190004/JAG/BJD/SJE

First Supplemental Information Disclosure Statement

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Commissioner for Patents
Washington, D.C. 20231

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Sir:

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Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. This Information Disclosure Statement is supplemental to an Information Disclosure Statement that was electronically filed on November 14, 2002.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following, in regards to non-English language document AT37 cited on Form PTO 1449:

Document **AT37**, Kozlovskaya, T.M., *et al.*, "Formation of capsid-like structures as a result of the expression of a cloned envelope protein gene from RNA-containing bacteriophage fr," *Dokl. Akad. Nauk. SSSR* 287:452-455 (1986), is in the Russian language. An unverified English language abstract (from STNEasy/CAplus) is attached as Document **AR38**.

The Examiner is referred to the following related, co-pending patent applications:

U.S. Patent Application No. 09/449,631, filed November 30, 1999, inventors Renner *et al.*, submitted herewith as **AR77**;

U.S. Patent Application No. 10/050,898, filed January 18, 2002, inventors Renner *et al.*, submitted herewith as **AS77**.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

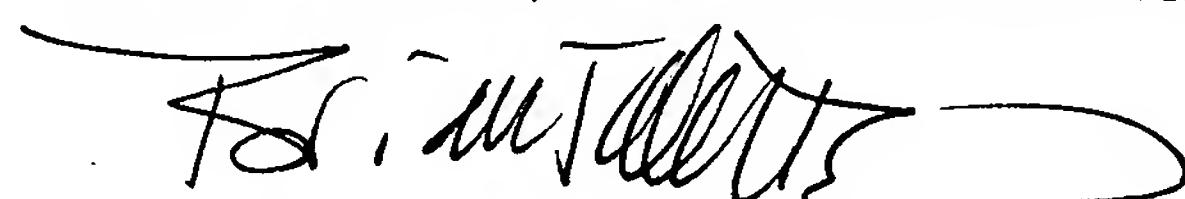
Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono
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Date: Nov. 21, 2002

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FORM PTO-1449 <u>FIRST SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE		APPLICATION NO. 10/050,902		
		APPLICANT RENNER et al.				
		FILING DATE January 18, 2002		GROUP 1645		

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	WO 92/11291 A1	07/09/1992	WIPO			Yes No
	AM1	WO 96/30523 A2	10/03/1996	WIPO			Yes No
	AN1	WO 97/31948 A1	09/04/1997	WIPO			Yes No
	AO1	WO 98/15631 A1	04/16/1998	WIPO			Yes No
	AP1	WO 00/32227 A2	06/08/2000	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Abraham, J.M., et al., "An invertible element of DNA controls phase variation of type 1 fimbriae of <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82:5724-5727, National Academy Press (1985)
	AS	1	Abraham, S.N., et al., "Glycerol-Induced Unraveling of the Tight Helical Conformation of <i>Escherichia coli</i> Type 1 Fimbriae," <i>J. Bacteriol.</i> 174:5145-5148, American Society for Microbiology (1992)
	AT	1	Adhin, M.R., et al., "Nucleotide Sequence from the ssRNA Bacteriophage JP34 Resolves the Discrepancy between Serological and Biophysical Classification," <i>Virology</i> 170:238-242, Academic Press, Inc. (1989)

EXAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AL2	WO 00/59928 A1	10/12/2000	WIPO			Yes No
	AM2	WO 00/23955 A1	04/27/2000	WIPO			Yes No
	AN2	WO 01/62284 A2	08/30/2001	WIPO			Yes No
	AO2	WO 01/85208 A2	11/15/2001	WIPO			Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Aguzzi, A., "Prion diseases, blood and the immune system: concerns and reality," <i>Haematologica</i> 85:3-10, Il Pensiero Scientifico Editore (January 2000)
	AS	2	Ansel, K.M., et al., "In Vivo-activated CD4 T Cells Upregulate CXC Chemokine Receptor 5 and Reprogram Their Response to Lymphoid Chemokines," <i>J. Exp. Med.</i> 190:1123-1134, The Rockefeller University Press (1999)
	AT	2	Ansel, K.M., et al., "A chemokine-driven positive feedback loop organizes lymphoid follicles," <i>Nature</i> 406:309-314, Nature Publishing Group (July 2000)

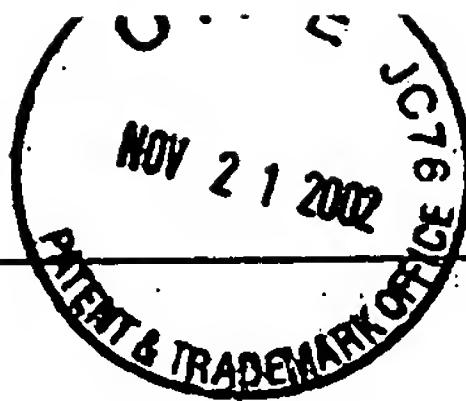
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AM							Yes No
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AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	3	Antonyamy, M.A., et al., "Evidence for a Role of IL-17 in Organ Allograft Rejection: IL-17 Promotes the Functional Differentiation of Dendritic Cell Progenitors," <i>J. Immunol.</i> 162:577-584, The American Association of Immunologists (1999)
AS	3	Arenberg, D.A., et al., "The murine CC chemokine, 6C-kine, inhibits tumor growth and angiogenesis in a human lung cancer SCID mouse model," <i>Cancer Immunol. Immunother.</i> 49:587-592, Springer-Verlag (January 2001)
AT	3	Arnon, R., et al., "A mimotope peptide-based vaccine against <i>Schistosoma mansoni</i> : synthesis and characterization," <i>Immunology</i> 101:555-562, Blackwell Science, Ltd. (December 2000)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	4	Bachmann, M.F., and Zinkernagel, R.M., "The influence of virus structure on antibody responses and virus serotype formation," <i>Immunol. Today</i> 17:553-558, Elsevier Science, Ltd. (1996)
AS	4	Bachmann, M.F., and Zinkernagel, R.M., "Neutralizing Antiviral B Cell Responses," <i>Annu. Rev. Immunol.</i> 15:235-270, Annual Reviews, Inc. (1997)
AT	4	Bachmann, M.F., et al., "TRANCE, a Tumor Necrosis Factor Family Member Critical for CD40 Ligand-independent T Helper Cell Activation," <i>J. Exp. Med.</i> 189:1025-1031, The Rockefeller University Press (1999)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	5	Banerjee, R.R., and Lazar, M.A., "Dimerization of Resistin and Resistin-like Molecules Is Determined by a Single Cysteine," <i>J. Biol. Chem.</i> 276:25970-25973, The American Society for Biochemistry and Molecular Biology, Inc. (July 2001)
	AS	5	Bard, F. et al., "Peripherally administered antibodies against amyloid β -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <i>Nat. Med.</i> 6:916-919, Nature Publishing Company (August 2000)
	AT	5	Bass, S., and Yang, M., "Expressing cloned genes in <i>Escherichia coli</i> ," in <i>Protein Function: A Practical Approach</i> , 2nd ed., Creighton, T.E., ed., IRL Press, Oxford, Great Britain, pp. 29-55 (1997)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	6	Bernhagen, J., et al., "Purification, Bioactivity, and Secondary Structure Analysis of Mouse and Human Macrophage Migration Inhibitory Factor (MIF)," <i>Biochemistry</i> 33:14144-14155, American Chemical Society (1994)
AS	6	Biaselle, C.J., and Millar, D.B., "Studies on Triton X-100 detergent micelles," <i>Biophys. Chem.</i> 3:355-361, North-Holland Publishing Company (1975)
AT	6	Bleul, C.C., et al., "The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry," <i>Nature</i> 382:829-833, Nature Publishing Group (1996)

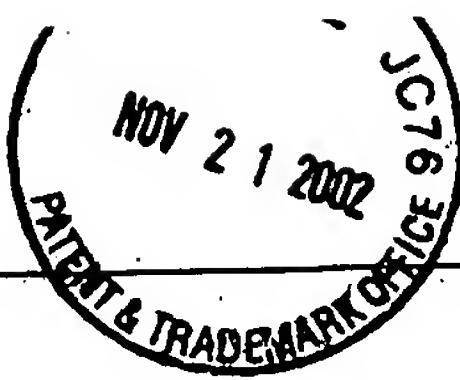
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	7	Blomfield, I.C., et al., "Type 1 Fimbriation and <i>fimE</i> Mutants of <i>Escherichia coli</i> K-12," <i>J. Bacteriol.</i> 173:5298-5307, American Society for Microbiology (1991)
	AS	7	Blomfield, I.C., et al., "Integration host factor stimulates both FimB- and FimE-mediated site-specific DNA inversion that controls phase variation of type 1 fimbriae expression in <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 23:705-717, Blackwell Science, Ltd. (1997)
	AT	7	Boder, E.T., and Wittrup, K.D., "Yeast Surface Display for Directed Evolution of Protein Expression, Affinity, and Stability," <i>Methods Enzymol.</i> 328:430-444, Academic Press (October 2000)

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AR	8	Bonci, A., et al., "Relatedness and Phylogeny Within the Family of Periplasmic Chaperones Involved in the Assembly of Pili or Capsule-Like Structures of Gram-Negative Bacteria," <i>J. Mol. Evol.</i> 44:299-309, Springer-Verlag (1997)
AS	8	Brandner, S., et al., "A crucial role for B cells in neuroinvasive scrapie," <i>Transfus. Clin. Biol.</i> 6:17-23, Elsevier, Paris (1999)
AT	8	Brinton, Jr., C.C., "The structure, function, synthesis and genetic control of bacterial pili and a molecular model for DNA and RNA transport in gram negative bacteria," <i>Trans. N.Y. Acad. Sci.</i> 27:1003-1054, New York Academy of Sciences (1965)

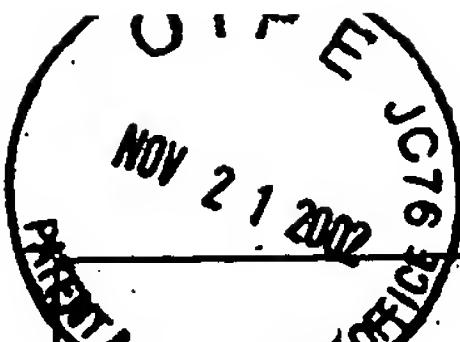
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AR	9	Brown, K.D., et al., "A family of small inducible proteins secreted by leukocytes are members of a new superfamily that includes leukocyte and fibroblast-derived inflammatory agents, growth factors, and indicators of various activation processes," <i>J. Immunol.</i> 142:679-687, The American Association of Immunologists (1989)
AS	9	Brown, P.M., et al., "A Single-Step Purification of Biologically Active Recombinant Human Interleukin-5 from a Baculovirus Expression System," <i>Protein Expr. Purif.</i> 6:63-71, Academic Press, Inc. (1995)
AT	9	Brown, K.L., et al., "Scrapie replication in lymphoid tissues depends on prion protein-expressing follicular dendritic cells," <i>Nat. Med.</i> 11:1308-1312, Nature Publishing Company (1999)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>10</u>	Bullitt, E., et al., "Development of pilus organelle subassemblies in vitro depends on chaperone uncapping of a beta zipper," Proc. Natl. Acad. Sci. USA 93:12890-12895, National Academy Press (1996)
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AT	<u>10</u>	Burger, J.A., et al., "Blood-derived nurse-like cells protect chronic lymphocytic leukemia B cells from spontaneous apoptosis through stromal cell-derived factor-1," Blood 96:2655-2663, The American Society of Hematology (October 2000)

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AR	<u>11</u>	Burghoff, R.L., et al., "Utilization of the Mouse Large Intestine To Select an Escherichia coli F-18 DNA Sequence That Enhances Colonizing Ability and Stimulates Synthesis of Type 1 Fimbriae," <i>Infect. Immun.</i> 61:1293-1300, American Society for Microbiology (1993)
AS	<u>11</u>	Cannon-Carlson S., et al., "Expression, Purification, and Characterization of Recombinant Human Interleukin-13 from NS-O Cells," <i>Protein Expr. Purif.</i> 12:239-248, Academic Press (1998)
AT	<u>11</u>	Chabaud, M., et al., "Enhancing Effect of IL-17 on IL-1-Induced IL-6 and Leukemia Inhibitory Factor Production by Rheumatoid Arthritis Synoviocytes and Its Regulation by Th2 Cytokines," <i>J. Immunol.</i> 161: 409-414, The American Association of Immunologists (1998)

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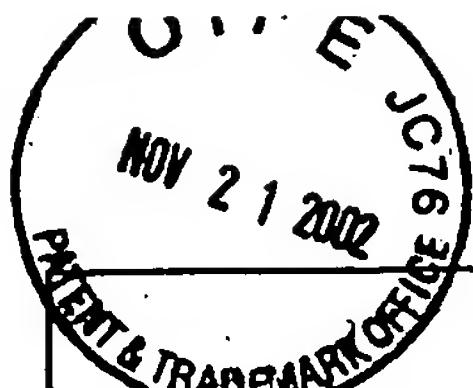
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AT	<u>17</u>	Eisenstein, B.I., "Phase Variation of Type 1 Fimbriae in <i>Escherichia coli</i> Is Under Transcriptional Control," <i>Science</i> 214:337-339, American Association for the Advancement of Science (1981)

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AS	<u>22</u>	Golmohammadi, R., et al., "The crystal structure of bacteriophage Q β at 3.5 \AA resolution," <i>Structure</i> 4:543-554, Current Biology, Ltd. (1996)
AT	<u>22</u>	Gunn, M.D., et al., "A B-cell-homing chemokine made in lymphoid follicles activates Burkitt's lymphoma receptor-1," <i>Nature</i> 391:799-803, Nature Publishing Group (1998)

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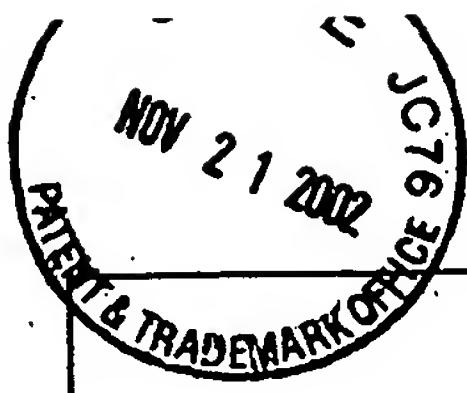
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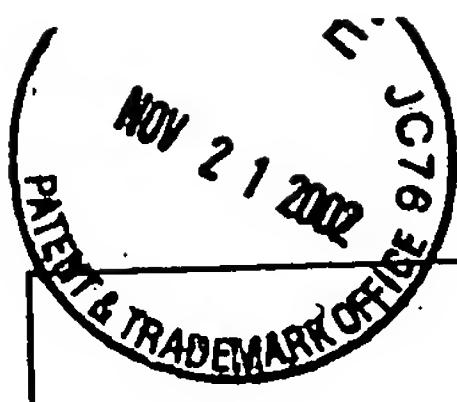
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AR	<u>24</u>	Harrison, J.L., et al., "Screening of Phage Antibody Libraries," <i>Methods Enzymol.</i> 267:83-109, Macmillan Publishers, Ltd. (1996)
AS	<u>24</u>	Haslam, D.B., et al., "The amino-terminal domain of the P-pilus adhesin determines receptor specificity," <i>Mol. Microbiol.</i> 14:399-409, Blackwell Scientific Publications (1994)
AT	<u>24</u>	Hedrick, J.A., and Zlotnik, A., "Identification and Characterization of a Novel β Chemokine Containing Six Conserved Cysteines," <i>J. Immunol.</i> 159: 1589-1593, The American Association of Immunologists (1997)

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AR	<u>25</u>	Heveker, N., et al., Dissociation of the signalling and antiviral properties of SDF-1-derived small peptides," Curr. Biol. 8:369-376, Current Biology, Ltd. (1998)
AS	<u>25</u>	Hirel, P.-H., et al., "Extent of N-terminal methionine excision from <i>Escherichia coli</i> proteins is governed by the side-chain length of the penultimate amino acid," Proc. Natl. Acad. Sci. USA 86:8247-8251, National Academy Press (1989)
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AR	<u>26</u>	Holmgren, A., et al., "Conserved immunoglobulin-like features in a family of periplasmic pilus chaperones in bacteria," <i>EMBO J.</i> 11:1617-1622, Oxford University Press (1992)
AS	<u>26</u>	Holmgren, A., and Bränden, C.-I., "Crystal structure of chaperone protein PapD reveals an immunoglobulin fold," <i>Nature</i> 342:248-251, Nature Publishing Group (1989)
AT	<u>26</u>	Hultgren, S.J., et al., "The PapG adhesin of uropathogenic <i>Escherichia coli</i> contains separate regions for receptor binding and for the incorporation into the pilus," <i>Proc. Nat. Acad. Sci. USA</i> 86:4357-4361, National Academy Press (1989)

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	AR	27	Hultgren, S.J., et al., "PapD and superfamily of periplasmic immunoglobulin-like pilus chaperones," <i>Adv. Prot. Chem.</i> 44:99-123, Academic Press, Inc. (1993)
	AS	27	Hultgren, S.J., et al., "Pilus and Nonpilus Bacterial Adhesins: Assembly and Function in Cell Recognition," <i>Cell</i> 73:887-901, Cell Press (1993)
	AT	27	Hultgren, S.J., et al., "Bacterial Adhesins and Their Assembly," in <i>Escherichia coli and Salmonella</i> , Neidhardt, F.C., et al., eds., ASM Press, Washington, D.C. pp. 2730-2756 (1996)

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AR	<u>28</u>	Humbles, A.A., et al., "Kinetics of Eotaxin Generation and Its Relationship to Eosinophil Accumulation in Allergic Airways Disease: Analysis in a Guinea Pig Model In Vivo," <i>J. Exp. Med.</i> 186:601-612, The Rockefeller University Press (1997)
AS	<u>28</u>	Hung, D.L., et al., "Molecular basis of two subfamilies of immunoglobulin-like chaperones," <i>EMBO J.</i> 15:3792-3805, Oxford University Press (1996)
AT	<u>28</u>	Hung, D.L. and Hultgren, S.J., "Pilus Biogenesis via the Chaperone/Usher Pathway: An Integration of Structure and Function," <i>J. Struct. Biol.</i> 124:201-220, Academic Press (1998)

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AR	<u>29</u>	Ikeda, T., et al., "Determination of Three Isoforms of the Receptor Activator of Nuclear Factor- κ B Ligand and Their Differential Expression in Bone and Thymus," <i>Endocrinology</i> 142:1419-1426, The Endocrine Society (April 2001)
AS	<u>29</u>	Ingle E., et al., "Production and purification of recombinant human interleukin-5 from yeast and baculovirus expression systems," <i>Eur. J. Biochem.</i> 196:623-629, Blackwell Science, Ltd. (1991)
AT	<u>29</u>	Jacob-Dubuisson, F., et al., "PapD chaperone function in pilus biogenesis depends on oxidant and chaperone-like activities of DsbA," <i>Proc. Natl. Acad. Sci. USA</i> 91:11552-11556, National Academy Press (1994)

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	AR	30	Jacob-Dubuisson, F., et al., "Initiation of assembly and association of the structural elements of a bacterial pilus depend on two specialized tip proteins," <i>EMBO J.</i> 12:837-847, Oxford University Press (1993)
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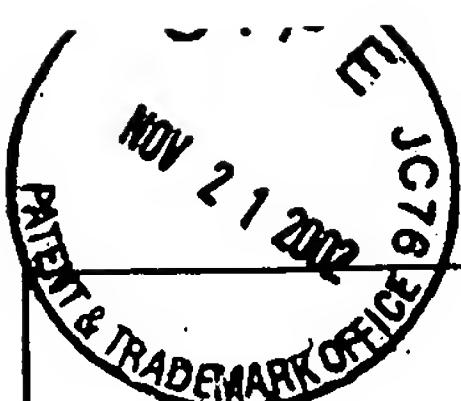
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>31</u>	Jones, C.H., et al., "FimC is a periplasmic PapD-like chaperone that directs assembly of type 1 pili in bacteria," Proc. Natl. Acad. Sci. USA 90:8397-8401, National Academy Press (1993)
	AS	<u>31</u>	Jones, C.H., et al., "FimH adhesin of type 1 pili is assembled into a fibrillar tip structure in the Enterobacteriaceae," Proc. Natl. Acad. Sci. USA 92:2081-2085, National Academy Press (1995)
	AT	<u>31</u>	Josien, R., et al., "TRANCE, a Tumor Necrosis Factor Family Member, Enhances the Longevity and Adjuvant Properties of Dendritic Cells In Vivo," J. Exp. Med. 191: 495-501, The Rockefeller University Press (February 2000)

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AT	<u>32</u>	Kastelein, R.A. et al., "Effect of the sequence upstream from the ribosome-binding site on the yield of protein from the cloned gene for phage MS2 coat protein," <i>Gene</i> 23:245-254, Elsevier (1983)

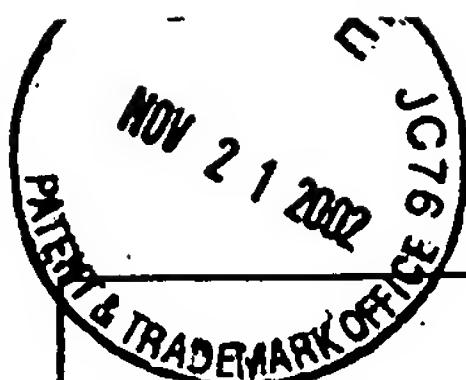
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AS	<u>33</u>	Kim, K.-H., et al., "A Cysteine-rich Adipose Tissue-specific Secretory Factor Inhibits Adipocyte Differentiation," <i>J. Biol. Chem.</i> 276:11252-11256, The American Society for Biochemistry and Molecular Biology, Inc. (April 2001)
AT	<u>33</u>	Klemm, P., "The <i>fimA</i> gene encoding the type-1 fimbrial subunit of <i>Escherichia coli</i> . Nucleotide sequence and primary structure of the protein," <i>Euro. J. Biochem.</i> 143:395-399, Blackwell Science, Ltd. (1984)

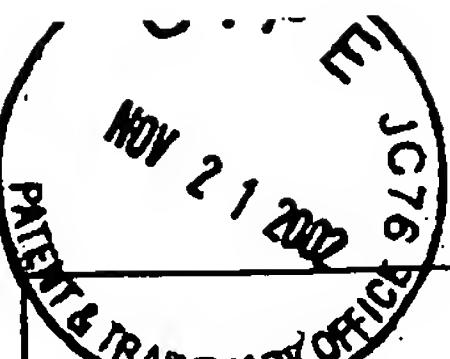
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	AT	34	Klemm, P., and Christiansen, G., "The fimD gene required for cell surface localization of <i>Escherichia coli</i> type 1 fimbriae," <i>Mol. Gen. Genet.</i> 220:334-338, Springer-Verlag (1990)

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	AR	<u>35</u>	Klemm, P., "FimC, a chaperone-like periplasmic protein of <i>Escherichia coli</i> involved in biogenesis of type 1 fimbriae," <i>Res. Microbiol.</i> 143:831-838, Institut Pasteur/Elsevier (1992)
	AS	<u>35</u>	Klemm, P., and Krogfelt, K.A., "Type 1 Fimbriae of <i>Escherichia coli</i> ," in <i>Fimbriae</i> , Klemm, P., ed., CRC Press, Inc., Boca Raton, FL., pp.9-26 (1994)
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AT	<u>36</u>	Koschel, M., et al., "Extensive Mutagenesis of the Hepatitis B Virus Core Gene and Mapping of Mutations That Allow Capsid Formation," <i>J. Virol.</i> 73:2153-2160, American Society for Microbiology (1999)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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AR	<u>37</u>	Koths, K., et al., "Structure-Function Studies on Human Macrophage Colony-Stimulating Factor (M-CSF)," <i>Mol. Reprod. Dev.</i> 46:31-38, Wiley-Liss, Inc. (1997)
AS	<u>37</u>	Kozlovska, T.M., et al., "Recombinant RNA phage Q β capsid particles synthesized and self-assembled in <i>Escherichia coli</i> ," <i>Gene</i> 137:133-137, Elsevier Science Publishers B.V. (1993)
AT	<u>37</u>	Kozlovskaya, T.M., et al., "Formation of capsid-like structures as a result of the expression of a cloned envelope protein gene from RNA-containing bacteriophage fr," <i>Dokl. Akad. Nauk. SSSR</i> 287: 452-455, Erivan Akademii Nauk Armianskoi Ssr (1986)

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AR	<u>38</u>	Kozlovskaya, T.M., et al., "Formation of capsid-like structures as a result of the expression of a cloned envelope protein gene from RNA-containing bacteriophage fr," STNEasy, Accession No. 1986:219892, CAplus English abstract (1986) (Document AT37)
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	AR	40	Lee, K.H., et al., "Two-Dimensional Electrophoresis of Proteins as a Tool in the Metabolic Engineering of Cell Cycle Regulation," <i>Biotech. Bioeng.</i> 50:336-340, John Wiley & Sons, Inc. (1996)
	AS	40	Leech, M., et al., "Involvement of macrophage migration inhibitory factor in the evolution of rat adjuvant arthritis," <i>Arthritis Rheum.</i> 41:910-917, Arthritis Foundation (1998)
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	AR	<u>41</u>	Liljeström, P., and Garoff, H., "A new generation of animal cell expression vectors based on the semliki forest virus replicon," <i>Bio/technology</i> 9:1356-1361, Nature Publishing Company (1991)
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	AT	<u>41</u>	Lim, F., et al., "The RNA-binding Site of Bacteriophage Q β Coat Protein," <i>J. Biol. Chem.</i> 271:31839-31845, The American Society for Biochemistry and Molecular Biology, Inc. (1996)

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AR	<u>42</u>	Lin, E.Y., et al., "Colony-stimulating Factor 1 Promotes Progression of Mammary Tumors to Malignancy," <i>J. Exp. Med.</i> 193:727-739, The Rockefeller University Press (March 2001)
AS	<u>42</u>	Lindberg, F., et al., "PapD, a Periplasmic Transport Protein in P-Pilus Biogenesis," <i>J. Bacteriol.</i> 171:6052-6058, American Society for Microbiology (1989)
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AR	<u>43</u>	López, O., et al., "Direct formation of mixed micelles in the solubilization of phospholipid liposomes by Triton X-100," <i>FEBS Lett.</i> 426:314-318, Elsevier (1998)
AS	<u>43</u>	Lowe, M.A., et al., "Immunoelectron Microscopic Analysis of Elongation of Type 1 Fimbriae in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 169:157-163, American Society for Microbiology (1987)
AT	<u>43</u>	Lu, D., et al., "Identification of the Residues in the Extracellular Region of KDR Important for Interaction with Vascular Endothelial Growth Factor and Neutralizing Anti-KDR Antibodies," <i>J. Biol. Chem.</i> 275:14321-14330, The American Society for Biochemistry and Molecular Biology, Inc. (May 2000)

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	AR	<u>44</u>	Lum, L., et al., "Evidence for a Role of a Tumor Necrosis Factor- α (TNF- α)-converting Enzyme-like Protease in Shedding of TRANCE, a TNF Family Member Involved in Osteoclastogenesis and Dendritic Cell Survival," <i>J. Biol. Chem.</i> 274:13613-13618, The American Society for Biochemistry and Molecular Biology, Inc. (1999)
	AS	<u>44</u>	Lundstrom, K., "Alphaviruses as expression vectors," <i>Curr. Opin. Biotechnol.</i> 8:578-582, Current Biology, Ltd. (1997)
	AT	<u>44</u>	Luther, S.A., et al., "BLT Expression in Pancreatic Islets Causes B Cell Recruitment and Lymphotoxin-Dependent Lymphoid Neogenesis," <i>Immunity</i> 12:471-481, Cell Press (May 2000)

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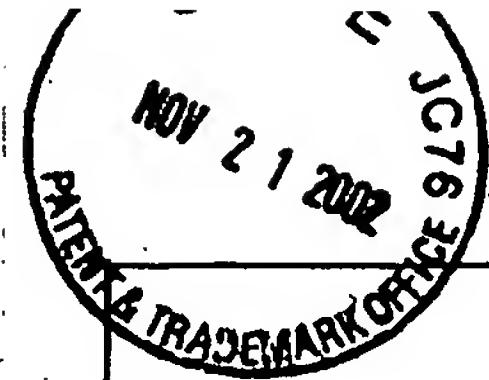
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AR	45	Mackay, J.L., and Browning, J.L., "Turning off follicular dendritic cells," <i>Nature</i> 395:26-27, Macmillan Magazines, Ltd. (1998)
AS	45	Martiny-Baron, G., and Marmé, D., "VEGF-mediated tumour angiogenesis: a new target for cancer therapy," <i>Curr. Opin. Biotechnol.</i> 6:675-680, Current Biology, Ltd. (1995)
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	AS	48	Millauer, B., et al., "Glioblastoma growth inhibited <i>in vivo</i> by a dominant-negative Flk-1 mutant," <i>Nature</i> 367:576-579, Nature Publishing Group (1994)
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AS	<u>50</u>	Müller, A., et al., "Involvement of chemokine receptors in breast cancer metastasis," Nature 410:50-56, Nature Publishing Group (March 2001)
AT	<u>50</u>	Murphy, Jr., K.P., et al., "Expression of Human Interleukin-17 in <i>Pichia pastoris</i> : Purification and Characterization," Protein Expr. Purif. 12:208-214, Academic Press (1998)

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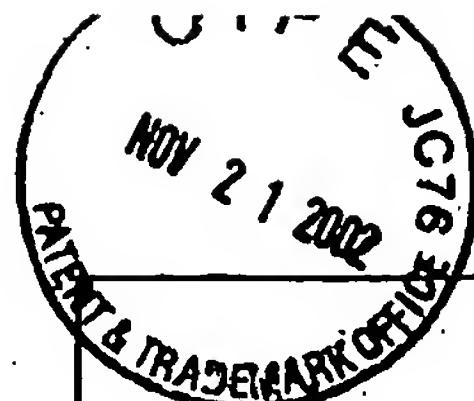
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AT	<u>51</u>	Naureckiene, S., and Uhlin., B.E., "In vitro analysis of mRNA processing by RNase E in the pap operon of <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 21:55-68, Blackwell Science, Ltd. (1996)

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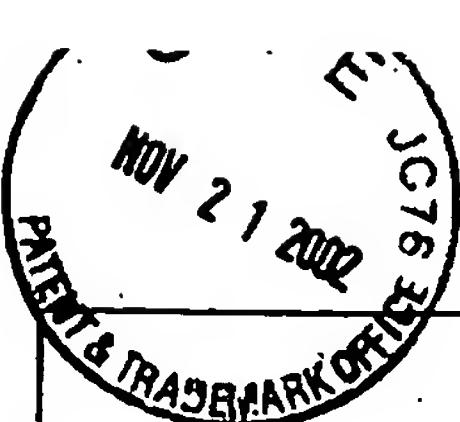
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AR	<u>56</u>	Pierrot, C., et al., "Expression of Rat Interleukin-5 and Generation of Neutralizing Antiserum: a Comparative Study of Rat IL-5 Produced in <i>Escherichia coli</i> and Insect Cells," <i>Biochem. Biophys. Res. Commun.</i> 253:756-760, Academic Press (1998)
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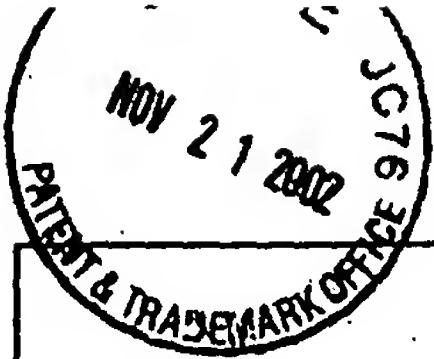
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AS	58	Risau, W., "Mechanisms of angiogenesis," <i>Nature</i> 386:671-674, Nature Publishing Group (1997)
AT	58	Ritter, A., et al., "The Pai-associated leuX specific tRNA ₅ ^{Leu} affects type 1 fimbriation in pathogenic <i>Escherichia coli</i> by control of FimB recombinase expression," <i>Mol. Microbiol.</i> 25:871-882, Blackwell Science, Ltd. (1997)

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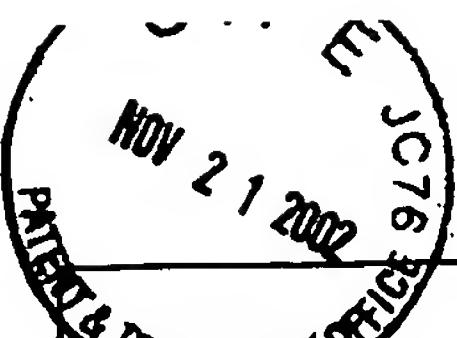
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AR	<u>68</u>	Teunissen, M.B.M., et al., "Interleukin-17 and Interferon- γ Synergize in the Enhancement of Proinflammatory Cytokine Production by Human Keratinocytes," J. Invest. Dermatol. 111:645-649, The Society for Investigative Dermatology, Inc. (1998)
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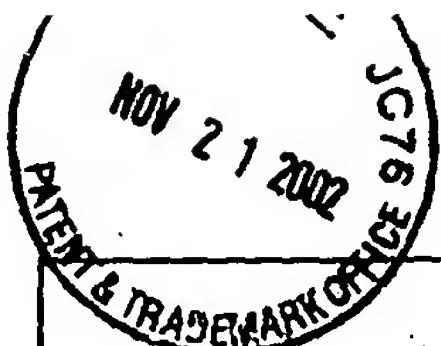
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AT	<u>69</u>	Ulrich, R., et al., "Core particles of hepatitis B virus as carrier for foreign epitopes," <i>Adv. Virus Res.</i> 50:141-182, Academic Press (1998)

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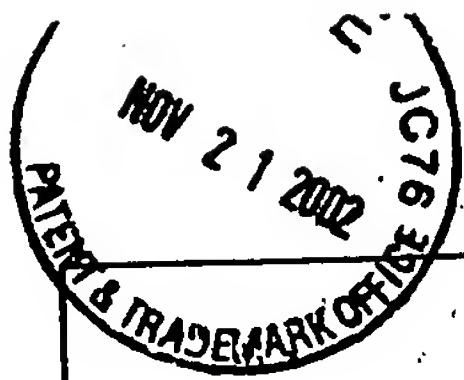
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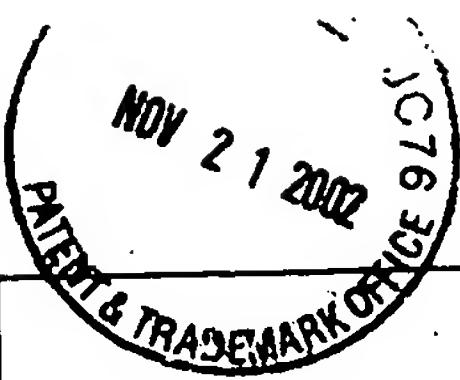
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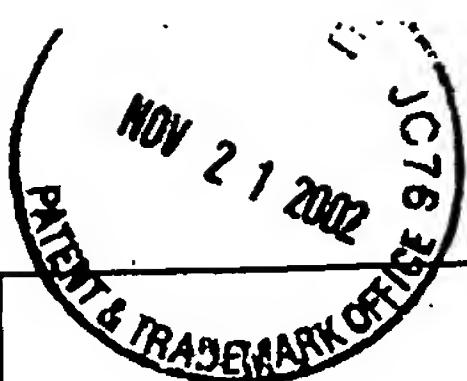
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

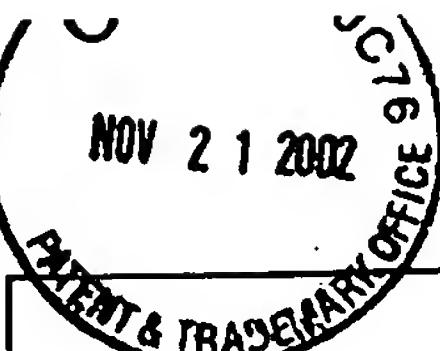
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	77	Copy of co-pending U.S. Application No. 09/449,631, inventors Renner et al., filed November 30, 1999.				
	AS	77	Copy of co-pending U.S. Application No. 10/050,898, inventors Renner et al., filed January 18, 2002.				
	AT	77	Fehr, T., et al., "T cell-independent type I antibody response against B cell epitopes expressed repetitively on recombinant virus particles," Proc. Natl. Acad. Sci. USA 95:9477-9481, National Academy Press (1998)				
EXAMINER						DATE CONSIDERED	

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10/050,902

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTAPPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
To be assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	78	Frenkel, D., et al., "Generation of auto-antibodies towards Alzheimer's disease vaccination," Vaccine 19:2615-2619, Elsevier Science, Ltd. (March 2001)
	AS	78	International Search Report for International Application No. PCT/IB02/00166 mailed on October 29, 2002.
	AT	78	International Search Report for International Application No. PCT/IB02/00168 mailed on November 4, 2002.

EXAMINER	DATE CONSIDERED
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